

FIG. 1

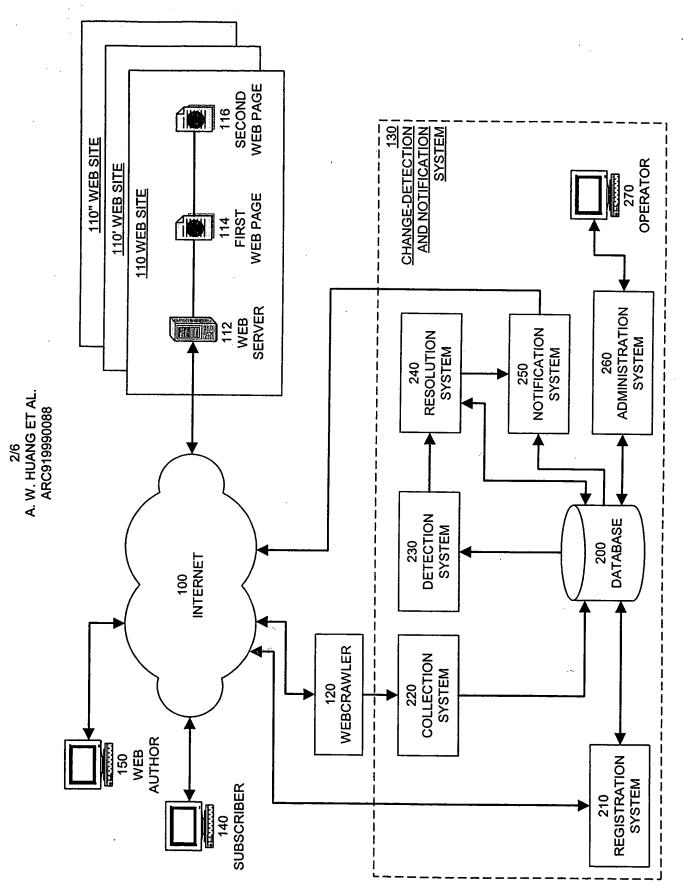


FIG. 2

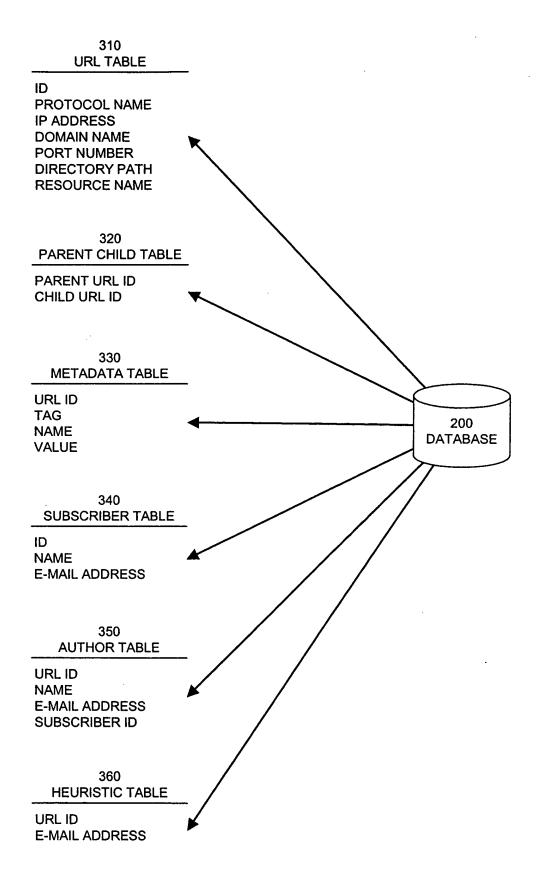


FIG. 3

CHANGE-DETECTION AND NOTIFICATION TCP/IP NETWORK CENTRAL PROCESSOR DATABASE ADAPTER INTERNET SYSTEM 100 MEMORY 412 BUS 440 | BUSINESS LOGIC TIER ADMINISTRATION APPLICATION REGISTRATION APPLICATION DATA OBJECTS 462 COLLECTION NOTIFICATION RESOLUTION DETECTION **PARTITION** DATA DATA DATA DATA 468 ARC919990088 ~ 442" -442 SERVICE OBJECTS COLLECTION APPLICATION RESOLUTION APPLICATION NOTIFICATION **APPLICATION APPLICATION** APPLICATION DETECTION **PARTITION** 452 454 458 **VISIT OBJECT** 442 TCP/IP INTERFACE PRESENTATION TIER INFRASTRUCTURE **ADMINISTRATOR** JAVA RUNTIME OPERATING OBJECTS PARTITION INTERFACE INTERFACE PLATFORM SYSTEM SYSTEM DBMS 432 420

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FIG. 4

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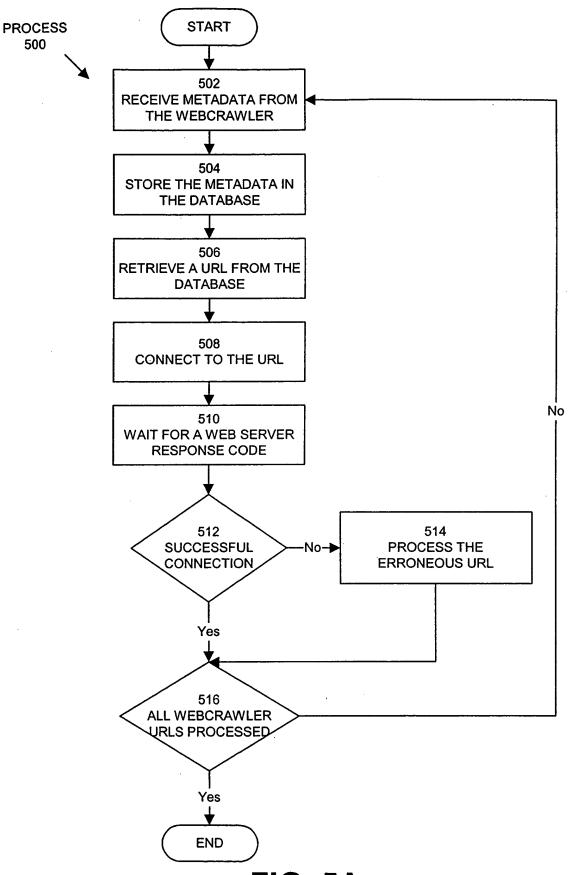


FIG. 5A

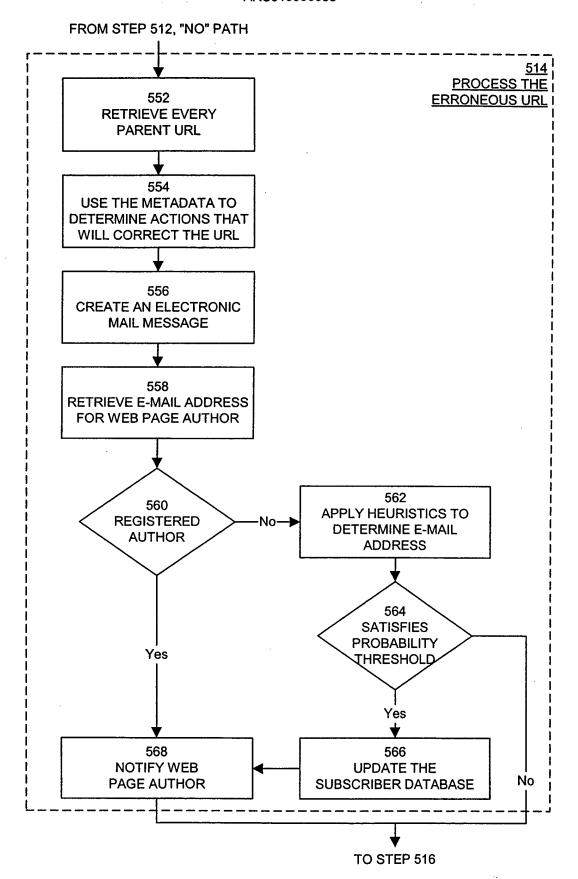


FIG. 5B